(a) Parameter balancing

Prior information (table file)

Model stoichiometry, prior

Kinetic data:

Catalytic constants,

Michaelis constants,

Model structure (SBML file)
Metabollites and reactions

distributions, lower/upper bounds,
Parameter dependencies

Data (table file)

Equilibrium constants Flux directions

State data:

driving forces

Metabolite levels.



Parameter Balancing

Balanced model parameters (table file)

Kinetic parameters and/or state variables (e.g. metabolite concentrations)

(SBML file)

Kinetic rate laws and

Parameterized kinetic model

Kinetic rate laws and model parameters inserted